$\vec{v}_1, \vec{v}_2, ...\vec{v}_k$ is linearly independent if

The span of $\vec{v}_1, \vec{v}_2, ...\vec{v}_k$ is

$\vec{v}$ is a linear combination of $\vec{v}_1, \vec{v}_2, ...\vec{v}_k$ if

$\vec{v}_1, \vec{v}_2, ...\vec{v}_k$ span $\mathbb{R}^n$ if

If a matrix $A_{m\times n}$ has full row pivots

If a matrix $A_{m\times n}$ has full column pivots

line vector $\vec{v}$ is on

determinant of 3×3 via Laplace expansion

subspace

basis for a subspace

column space of A

null space of A

eigenvalue

eigenvector

eigenvector decomposition